LAND APPLICATION OF BIOSOLIDS
BEAUTIFUL RUN FARM LLC

MA13 (FIELDS 2 – 15)
MADISON COUNTY, VIRGINIA
AUGUST 2012

SYNAGRO

September 11, 2013

Mr. Ed Stuart
Dept of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court
Woodbridge, VA 22193

Dear Mr. Stuart:

Transmitted herein for your consideration is land application site for Beautiful Run Farm LLC (designated as MA13, fields 2 - 15), located in Madison County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

Kelly M. Love
Technical Services Director

KML/cmw

Synagro Central, LLC.
10647 Tidewater Trail, Champlain, VA 22438 * Ph: (804) 443-2170 * Fax (804) 443-2214

SYNAGRO

FIELD SUMMARY SHEET

Beautiful Run Farm LLC MA 13

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
13-02	12.4	12.3		Agriculture	Beautiful Run Farm LLC
13-03	42.7	39.6		Agriculture	Beautiful Run Farm LLC
13-04	22.5	20.4		Agriculture	Beautiful Run Farm LLC
13-05	4.3	4.2		Agriculture	Beautiful Run Farm LLC
13-06	12.6	11.2		Agriculture	Beautiful Run Farm LLC
13-07	26.6	23.6		Agriculture	Beautiful Run Farm LLC
13-08	10.9	9.4		Agriculture	Beautiful Run Farm LLC
13-09	48.2	47.1		Agriculture	Beautiful Run Farm LLC
13-10	3.8	3.1		Agriculture	Beautiful Run Farm LLC
13-11	31.9	31.0		Agriculture	Beautiful Run Farm LLC
13-12	1.7	1.5		Agriculture	Beautiful Run Farm LLC
13-13	15.2	15.2		Agriculture	Beautiful Run Farm LLC
13-14	6.8	6.8		Agriculture	Beautiful Run Farm LLC
13-15	7.2	6.3		Agriculture	Beautiful Run Farm LLC
TOTALS:	246.8	231.7			

Revised 01-18-2016

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 8-27-13 between Beautiful Run Farm LLC referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:
The Landowner is the owner of record of the real property located in Madison, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
57-35	40-41	41-22B	

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:
☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
X Yes ☐ No	X Yes ☐ No	X Yes ☐ No	X Yes ☐ No

Beautiful Run Farm LLC
BRUCE SHEPHERD AGENT Bruce Shepherd
Harry Shepherd
Steve Shepherd

Landowner – Printed Name, Title	Signature	Mailing Address
		873 Long shot Lane Rochelle Va 22738

Permittee:
Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

D. Steve McMahon	D. Steve McMahon	10647 Tidewater Trail Champlain, VA 22438
Permittee – Authorized Representative Printed Name	Signature	Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro **County or City:** Madison

Landowner: Beautiful Run Farm LLC

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access
   a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
   b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
   c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:
   a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
   b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
   c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
   d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
   e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:
   Following biosolids application to pasture or hayland sites:
   a. Meat producing livestock shall not be grazed for 30 days,
   b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
   c. Other animals shall be restricted from grazing for 30 days;

5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;

6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Agent

Landowner's Signature

8/29/13

Date

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Beautiful Run Farm LLC	13-02	57-35
Beautiful Run Farm LLC	13-03	57-35
Beautiful Run Farm LLC	13-04	57-35
Beautiful Run Farm LLC	13-05	57-35
Beautiful Run Farm LLC	13-06	57-35
Beautiful Run Farm LLC	13-07	57-35
Beautiful Run Farm LLC	13-08	57-35
Beautiful Run Farm LLC	13-09	57-35
Beautiful Run Farm LLC	13-10	57-35
Beautiful Run Farm LLC	13-11	57-35
Beautiful Run Farm LLC	13-12	40-41
Beautiful Run Farm LLC	13-13	40-401
Beautiful Run Farm LLC	13-14	40-41, 41-22B
Beautiful Run Farm LLC	13-15	41-22B

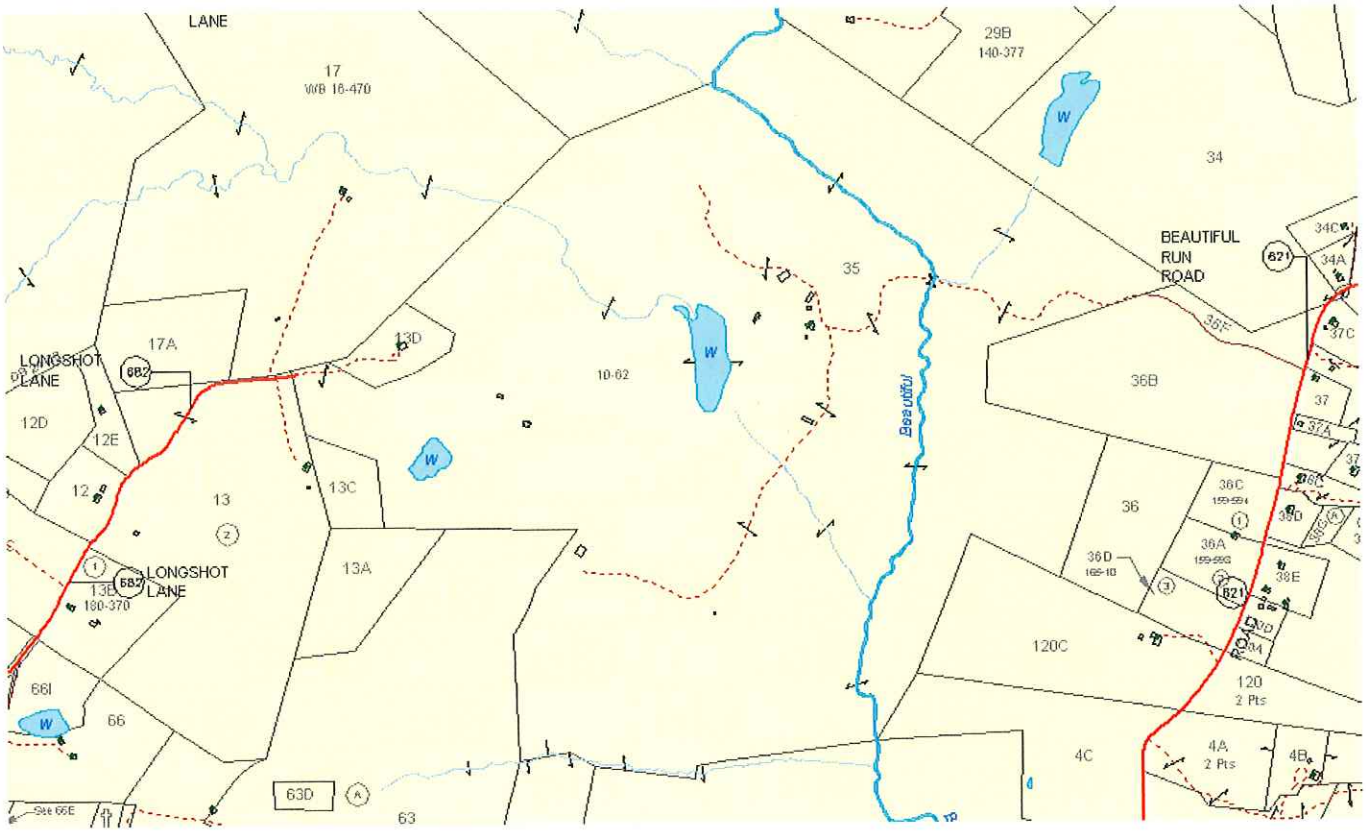
Field Number	Latitude (North)	Longitude (West)
13-02	38.298°	78.255°
13-03	38.299°	78.250°
13-04	38.300°	78.246°
13-05	38.297°	78.242°
13-06	38.295°	78.245°
13-07	38.295°	78.247°
13-08	38.292°	78.247°
13-09	38.291°	78.251°
13-10	38.294°	78.250°
13-11	38.295°	78.253°
13-12	38.381°	78.214°
13-13	38.379°	78.210°
13-14	38.380°	78.208°
13-15	38.378°	78.206°

Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.

SYNAGRO

Beautiful Run Farm LLC
MA13
Fields 2 – 11

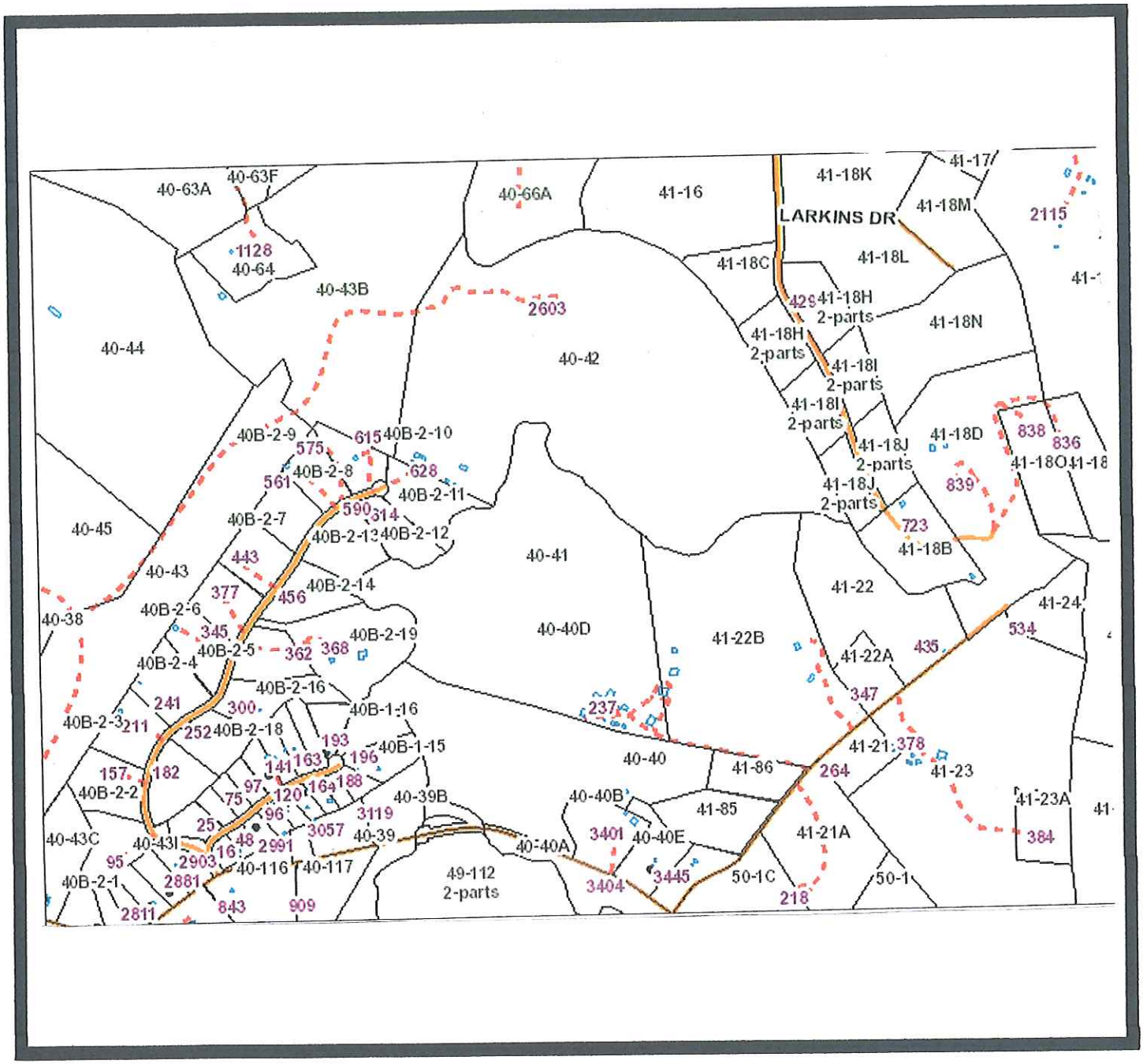


TAX MAP

N

SYNAGRO

Beautiful Run Farm LLC
MA13
Fields12 – 15



TAX MAP

Farm Summary Report

Plan: **New Plan** **Fall, 2010 - Winter, 2013**

Farm Name: **MA13**
Location: Madison
Specialist: Bill Rogers
N-based Acres: 272.5
P-based Acres: 0.0

Tract Name: **MA13**
FSA Number: 0
Location: Madison

Field Name: **13-02**
Total Acres: 12.40 Usable Acres: 12.30
FSA Number: 1655/16,17
Tract: MA13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method
Field Narrative:
On portions of the field containing Chewacla silt loam (Cm), the seasonal high water table may be within 18 inches of the soil surface during the months of November - April. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Chewacla silt loam (Cm) is a soil type identified by USDA as being frequently flooded during the months of November - April. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	MvB	Meadowville
62	HaC	Hazel
27	ElC2	Elioak
6	Cm	Chewacla

Field Warnings:
Environmentally Sensitive Soils due to:

Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-03**
Total Acres: 42.70 Usable Acres: 39.60
FSA Number: 1655/4,5,6,8,9
Tract: MA13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method
Field Narrative:
On portions of the field containing Chewacla silt loam (Cm), the seasonal high water table may be within 18 inches of the soil surface during the months of November - April. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Chewacla silt loam (Cm) is a soil type identified by USDA as being frequently flooded during the months of November - April. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
52	LfC2	Lloyd
20	LfB	Lloyd
13	HaC	Hazel
9	Cm	Chewacla
6	BrC	Bremo

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-04**
Total Acres: 22.50 Usable Acres: 20.40
FSA Number: 1655/1,2
Tract: MA13
Location: Madison
Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method
Field Narrative:
On portions of the field containing Chewacla silt loam (Cm), the seasonal high water table may be within 18 inches of the soil surface during the months of November - April. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Chewacla silt loam (Cm) is a soil type identified by USDA as being frequently flooded during the months of November - April. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

Congaree fine sandy loam (Cv) is a soil type identified by USDA as being frequently flooded during the months of November period.

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
18	HaC	Hazel
25	EIC2	Elioak
9	Cv	Congaree
48	Cm	Chewacla

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-05**
Total Acres: 4.30 Usable Acres: 4.20
FSA Number: 1655/3
Tract: MA13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
47	LIC2	Lloyd
53	BrC	Bremo

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-06**
Total Acres: 12.60 Usable Acres: 11.20
FSA Number: 1655/14
Tract: MA13
Location: Madison
Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method
Field Narrative:
On portions of the field containing Chewacla silt loam (Cm), the seasonal high water table may be within 18 inches of the soil surface during the months of November - April. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Chewacla silt loam (Cm) is a soil type identified by USDA as being frequently flooded during the months of November - April. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

Congaree fine sandy loam (Cv) is a soil type identified by USDA as being frequently flooded during the months of November period.

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
20	SrC	Starr
5	Cv	Congaree
75	Cm	Chewacla

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-07**
Total Acres: 26.60 Usable Acres: 23.60
FSA Number: 1655/10,12,13
Tract: MA13
Location: Madison
Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method
Field Narrative:
On portions of the field containing Chewacla silt loam (Cm), the seasonal high water table may be within 18 inches of the soil surface during the months of November - April. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Chewacla silt loam (Cm) is a soil type identified by USDA as being frequently flooded during the months of November - April. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

Congaree fine sandy loam (Cv) is a soil type identified by USDA as being frequently flooded during the months of November period.

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
36	LfC2	Lloyd
8	LfB	Lloyd
19	HaC	Hazel
9	Cv	Congaree
28	Cm	Chewacla

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-08**
Total Acres: 10.90 Usable Acres: 9.40
FSA Number: 1655/28
Tract: MA13
Location: Madison
Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method
Field Narrative:
On portions of the field containing Chewacla silt loam (Cm), the seasonal high water table may be within 18 inches of the soil surface during the months of November - April. During this period, soil borings must be conducted in these areas of the field within 7 days prior to biosolids application, during the above stated period.

Chewacla silt loam (Cm) is a soil type identified by USDA as being frequently flooded during the months of November - April. All biosolids applied to portions of the field containing this soil type must be incorporated within 48 hours of application, during the above stated period.

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
6	LfC2	Lloyd
10	DaC2	Davidson
84	Cm	Chewacla

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-09**
Total Acres: 48.20 Usable Acres: 47.80
FSA Number: 1655/25-27
Tract: MA13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
18	MvB	Meadowville
22	LfC2	Lloyd
52	ElC2	Elioak
8	ElB	Elioak

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-10**
Total Acres: 3.80 Usable Acres: 3.80
FSA Number: 1655/24
Tract: MA13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
21	LfC2	Lloyd
14	HaC	Hazel
65	BrC	Bremo

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-11**
Total Acres: 31.90 Usable Acres: 31.70
FSA Number: 1655/23
Tract: MA13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
49	LfC2	Lloyd
5	HaC	Hazel
26	ElC2	Elioak
20	ElB	Elioak

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-12**

Total Acres:	1.70	Usable Acres:	1.50
FSA Number:	1127/3		
Tract:	MA13		
Location:		Madison	
Slope Class:	B	Hydrologic Group:	B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
89	WhB	Wickham
11	HaC	Hazel

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-13**
Total Acres: 15.20 Usable Acres: 15.20
FSA Number: 1002/1127/1,2/1
Tract: MA 13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

%slope: 0.0 Slope Len: 0. R factor: 0.0 K factor: 0.0
T factor: 0.0 P factor: 1.0 Cmax: 0.000 Erosion: 0.0 tons/acre

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
40	LfC2	Lloyd
40	LfB	Lloyd
20	HaC	Hazel

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-14**
Total Acres: 6.80 Usable Acres: 6.80
FSA Number: 1127/2,6
Tract: MA13
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
65	LfC2	Lloyd
23	LfB	Lloyd
12	HaC	Hazel

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

Field Name: **13-15**
Total Acres: 7.20 Usable Acres: 6.30
FSA Number: 1127/5
Tract: MA13
Location: Madison
Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
42	LfC2	Lloyd
58	LfB	Lloyd

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME

MAP LEGEND

House/Dwelling with a well

Rock Outcrop

Well

Lake/Pond

Slope which exceeds 15%

Intermittent Stream

Stream/River

Agricultural/Drainage Ditch

Field boundary

Property Line – (Standard 100' Buffer, unless waiver issued)

Revised: Jan. 13, '14

SYNAGRO

ENVIRONMENTALLY SENSITIVE AREAS

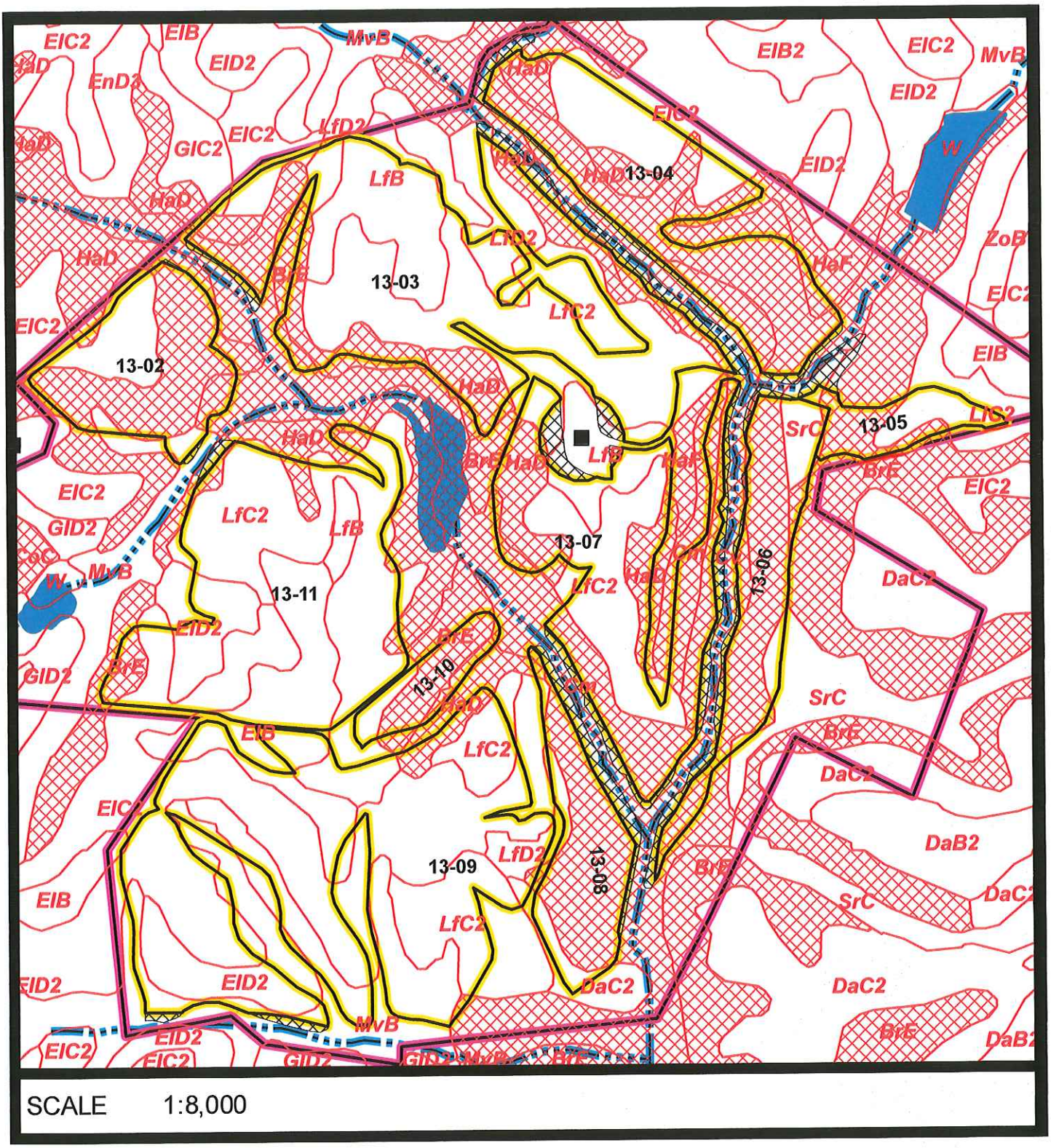
Field	Reason for Sensitive Area
13-02	High Water Table (Map Unit Cm - 6%) Flooded Soils (Map Unit Cm - 6%) Shallow Soils (Map Unit HaC - 62%)
13-03	High Water Table (Map Unit Cm - 9%) Flooded Soils (Map Unit Cm - 9%) Shallow Soils (Map Unit HaC - 14%) High Leaching Potention (Map Unit BrC - 6%)
13-04	High Water Table (Map Unit Cm - 48%) Flooded Soils (Map Units Cm, Cv - 57%) Shallow Soils (Map Unit HaC - 18%)
13-05	High Leaching Potention (Map Unit BrC - 53%)
13-06	High Water Table (Map Unit Cm - 75%) Flooded Soils (Map Units Cm, Cv - 80%)
13-07	High Water Table (Map Unit Cm - 28%) Flooded Soils (Map Units Cm, Cv - 37%) Shallow Soils (Map Unit HaC - 19%)
13-08	High Water Table (Map Unit Cm - 84%) Flooded Soils (Map Unit Cm - 84%)
13-09	None
13-10	High Leaching Potential (Map Unit BrC - 65%) Shallow Soils (Map Unit HaC - 14%)
13-11	Shallow Soils (Map Unit HaC - 5%)
13-12	Shallow Soils (Map Unit HaC - 11%)
13-13	Shallow Soils (Map Unit HaC - 20%)
13-14	Shallow Soils (Map Unit HaC - 12%)
13-15	None

Madison County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		
		High Water	Flooded	Environmental
Ab	Albano	Nov – May		
Ac, Ad	Alluvial	Nov – May	Nov – May	
Au	Augusta	Dec – May		
BaB	Baile	Nov – April		
BdC, BdD	Brandywine			Leaching
BeC, BeD, BeF	Brandywine			Leaching
BnD, BnF	Brandywine			Leaching
BrC, BrE	Bremo			Leaching
Bu	Buncombe		Feb – June	Leaching
CbB	Calverton	Dec – May		
CcC, CcE	Catoctin			Shallow
Cm	Chewacla	Nov – April	Nov – April	
Cn	Codorus	Nov – April	Nov – April	
CoC	Colfax	Nov – June		
Cv, Cw	Congaree		Nov – April	
Eb	Elbert	Nov – May		
HaC, HaD, HaF	Hazel			Shallow
IrB	Iredell	Dec – April		
LeD	Lewisberry			Leaching
LoC, LoD, LoF	Louisburg			Leaching
MoC	Manor			Leaching
Rh	Riverwash	Jan – Dec	Oct – July	
Rk	Roanoke	Nov – May		
TuB, TuC, TuD, TuE	Tusquitee			Leaching
WaC, WaE	Watt			Shallow
We	Wehadkee	Nov – May	Nov – May	
WmB	Worsham	Nov – April		

SYNAGRO

Beautiful Run Farm, LLC
MA13
Fields 2 – 11



SCALE 1:8,000

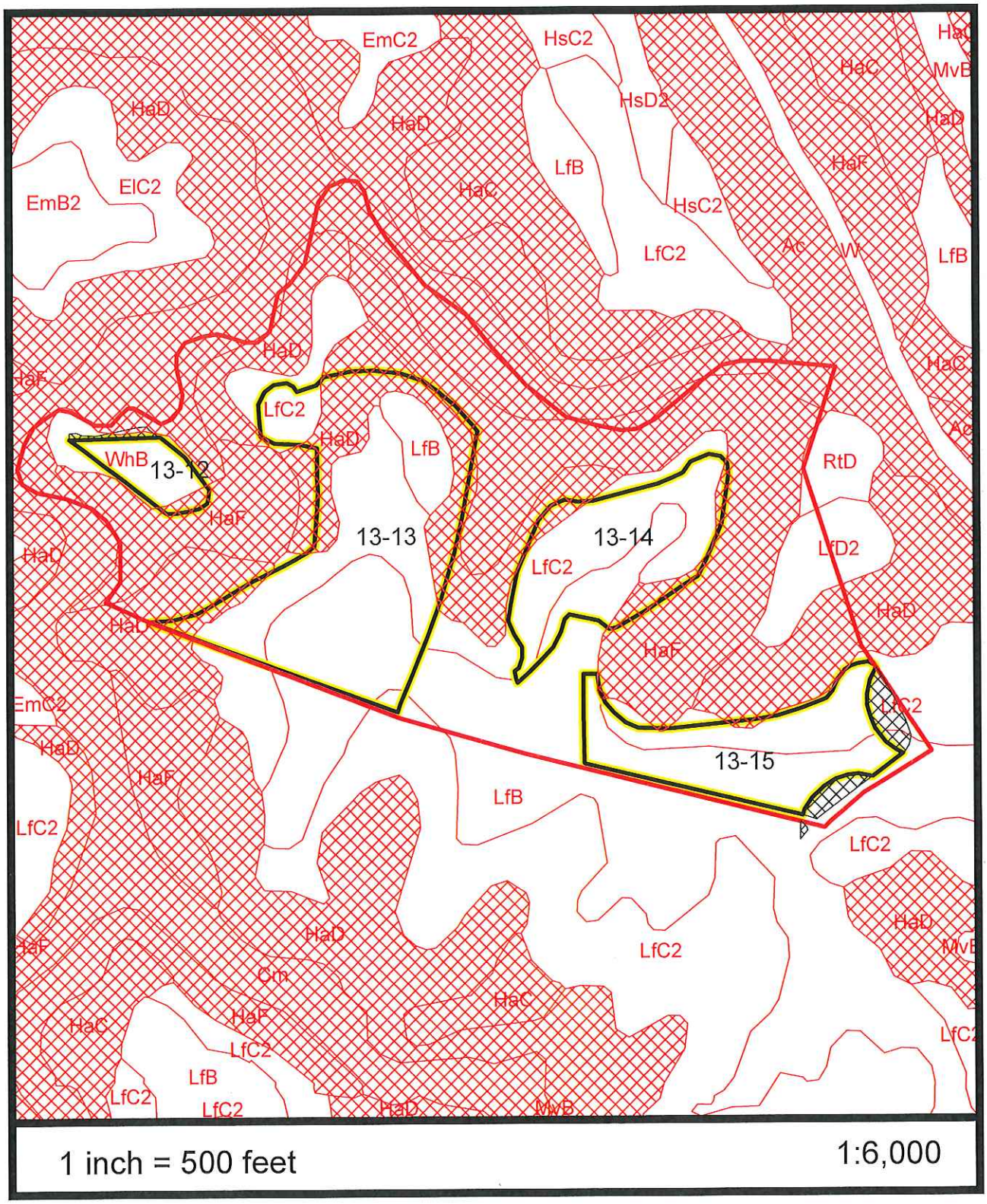
SOIL MAP

Environmentally Sensitive Areas

N

SYNAGRO

Beautiful Run Farm
MA 13
Fields 12-15



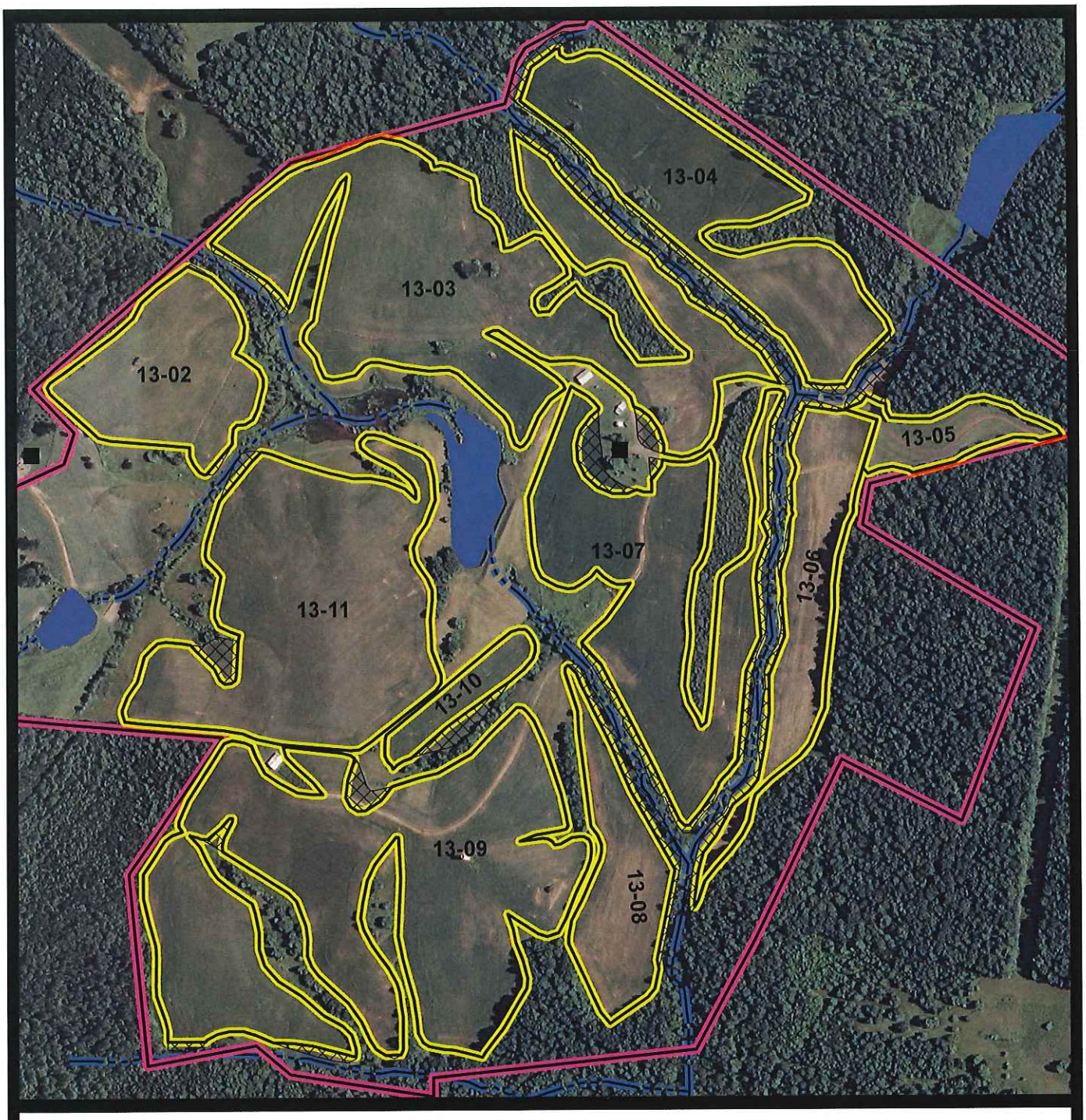
SOIL MAP

REVISED 1-15- 2016

Environmentally Sensitive Areas

SYNAGRO

Beautiful Run Farm, LLC
MA13
Fields 2 – 11



SCALE 1:8,000

REVISED 03/05/2014

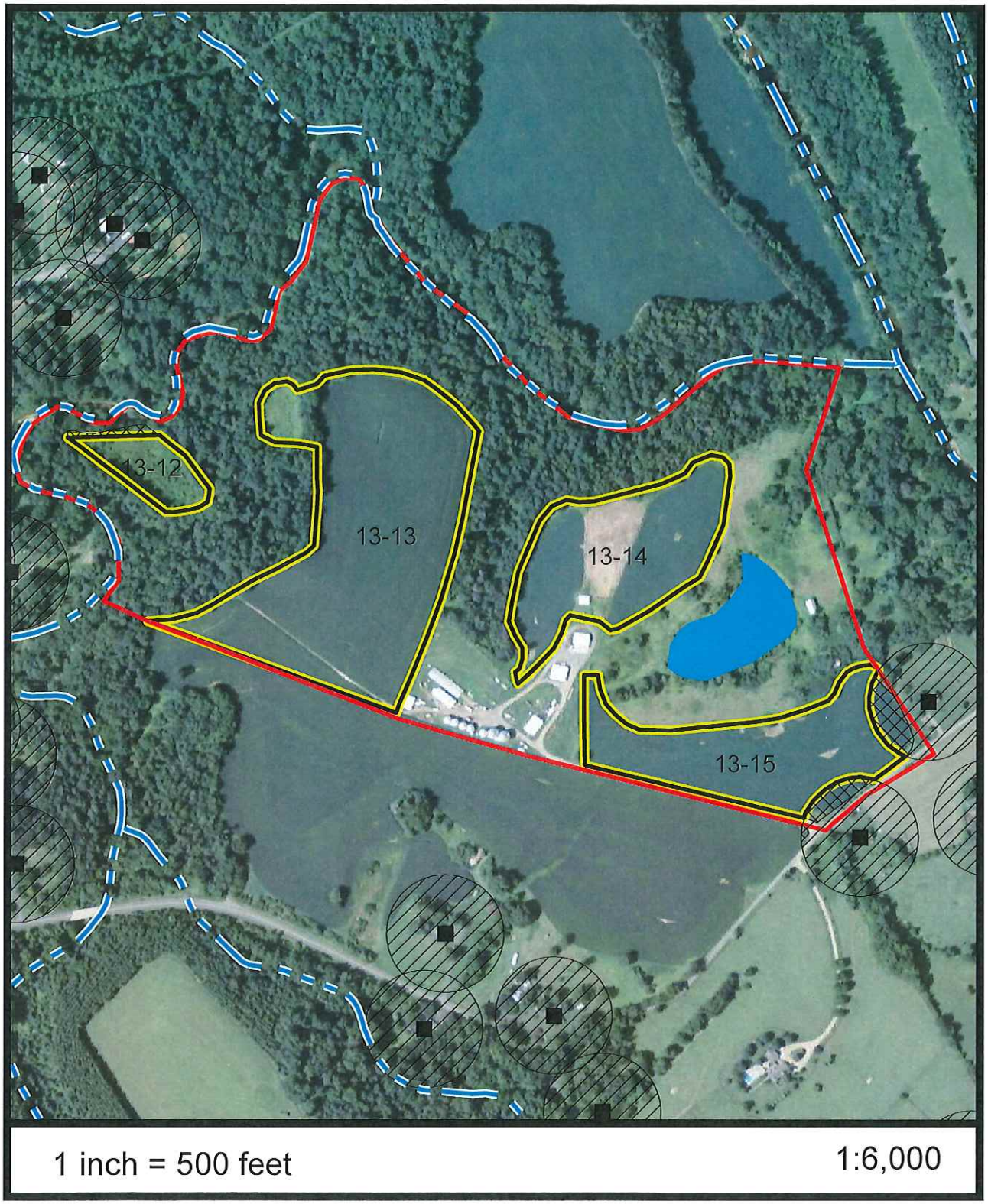
AERIAL MAP

N

N

SYNAGRO

Beautiful Run Farm
MA 13
Fields 12-15

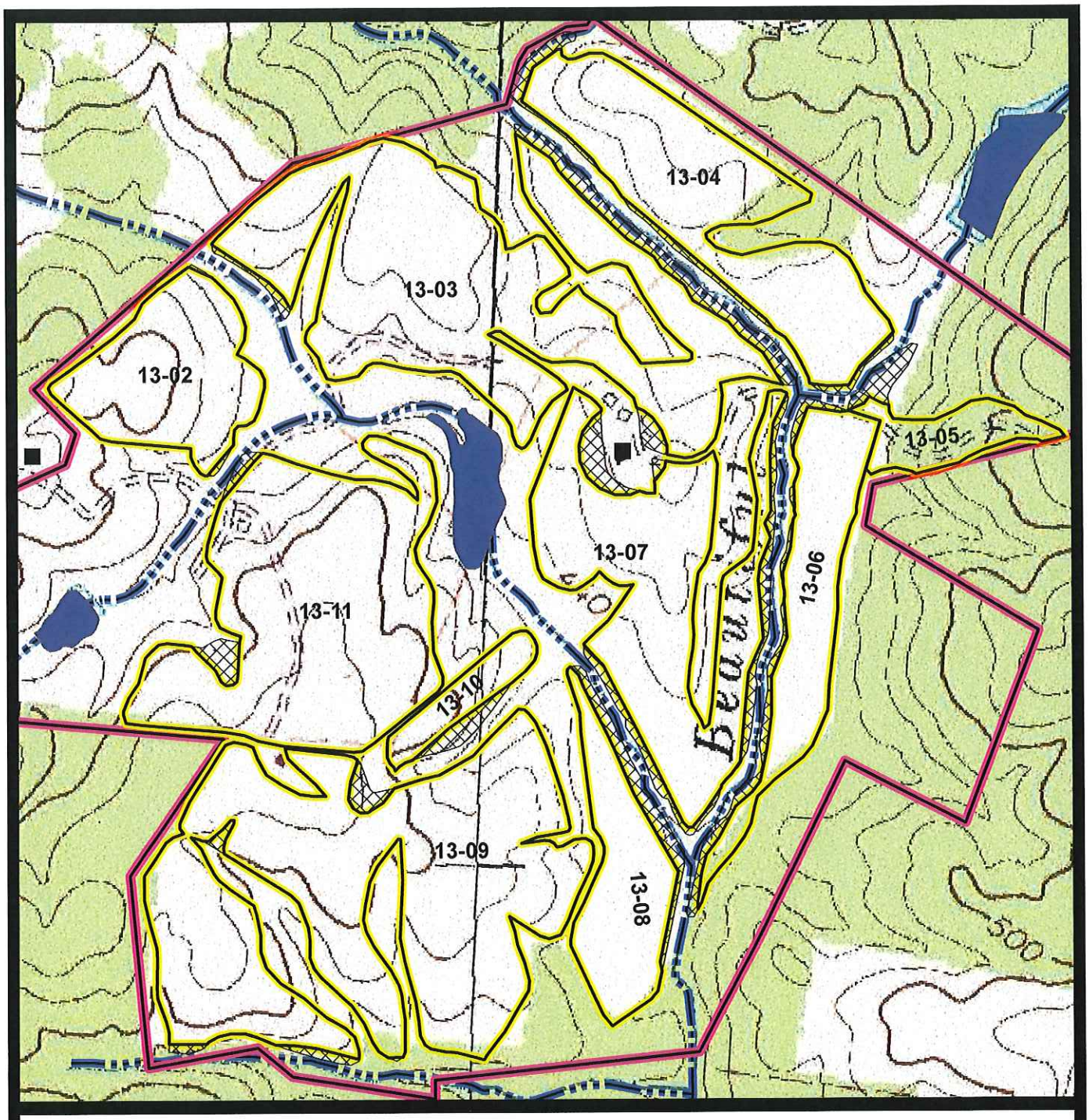


AERIAL MAP

REVISED 1-15- 2016

SYNAGRO

Beautiful Run Farm, LLC
MA13
Fields 2 – 11



SCALE 1:8,000

REVISED 03/05/2014

TOPO MAP

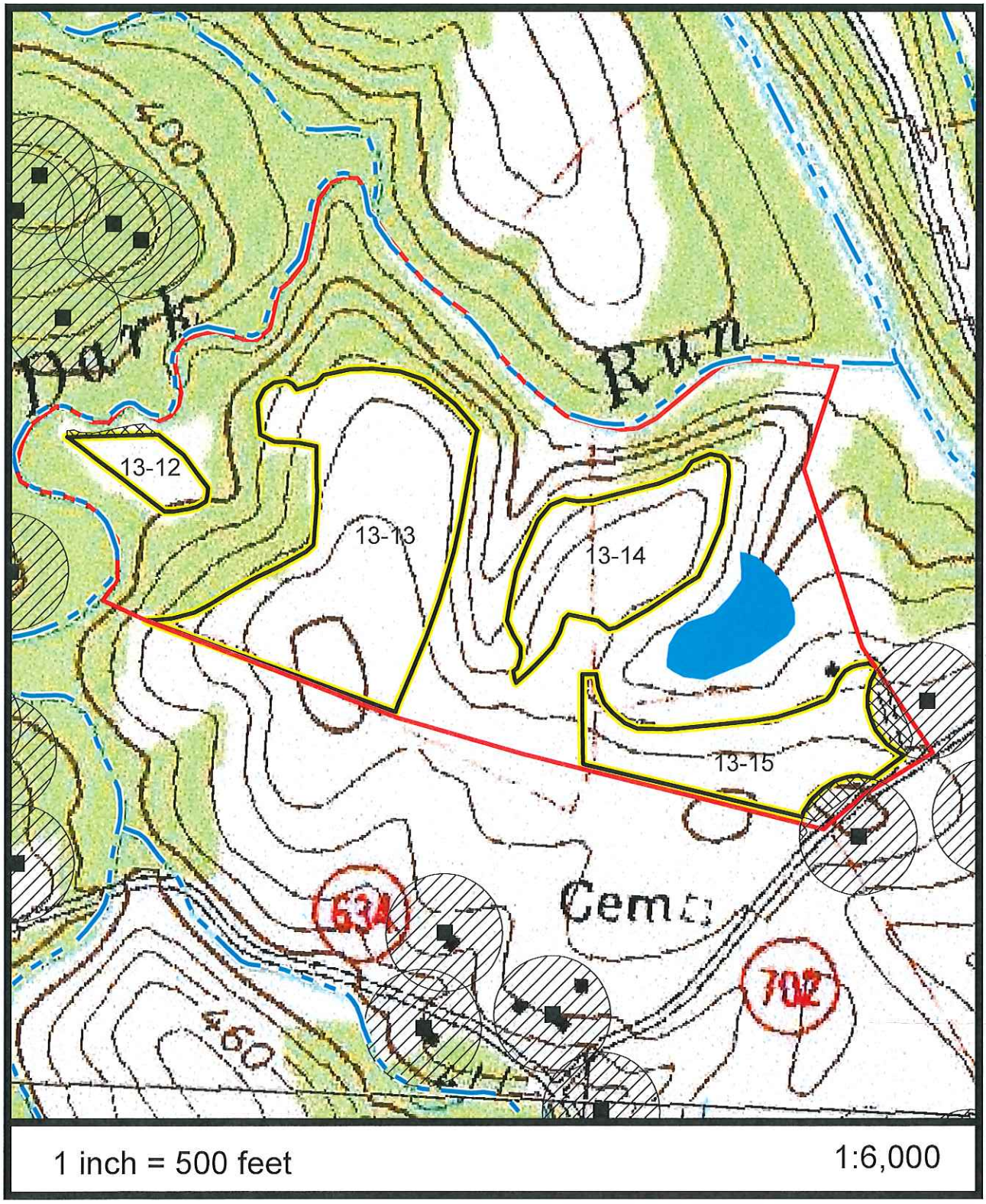
FIELD	ACRES
13-02	12.4
13-03	42.7
13-04	22.5
13-05	4.3
13-06	12.6

FIELD	ACRES
13-07	26.6
13-08	10.9
13-09	48.2
13-10	3.8
13-11	31.9

N

SYNAGRO

Beautiful Run Farm
MA 13
Fields 12-15



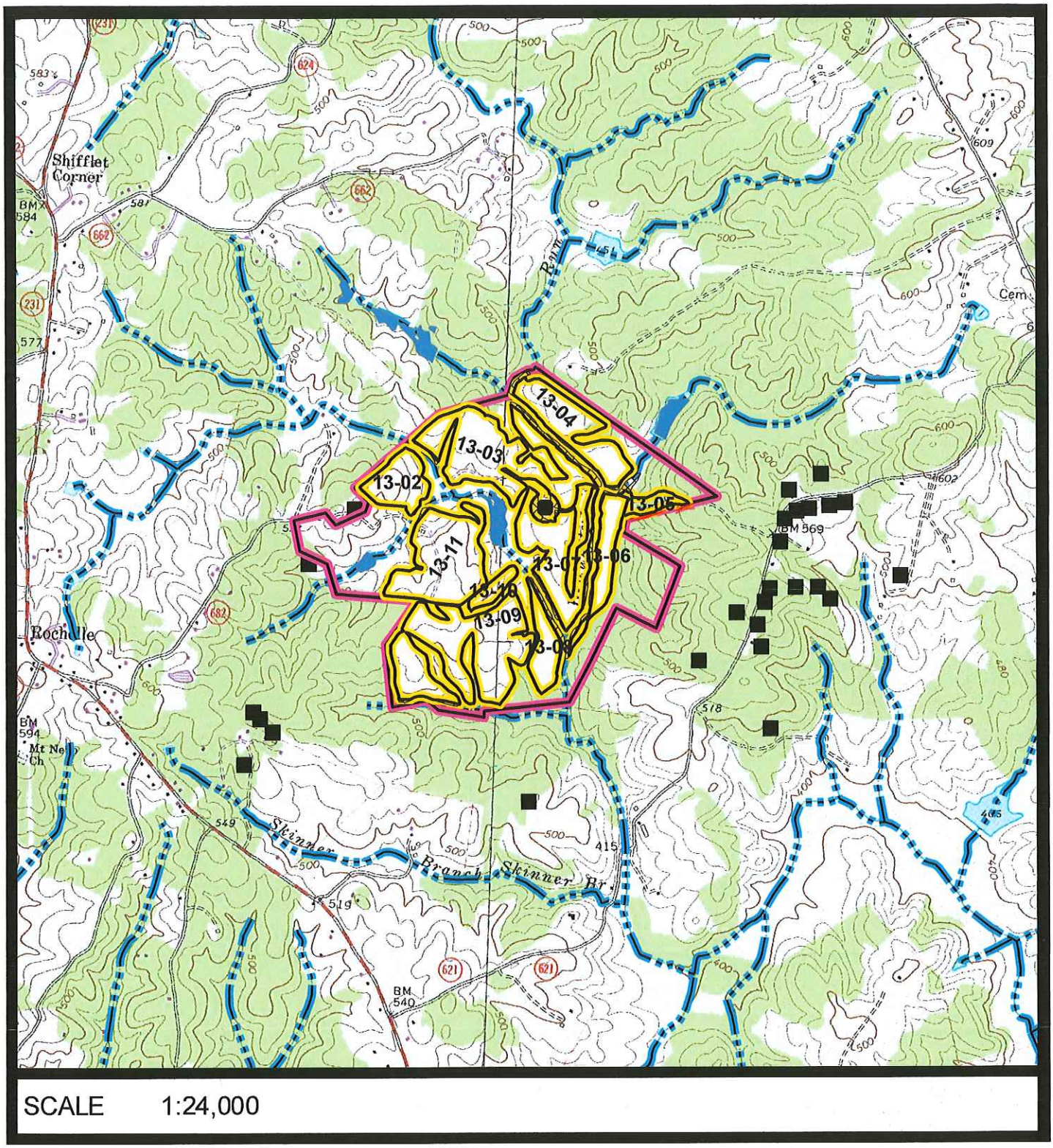
FIELD	ACRES
13-12	1.7
13-13	15.2
13-14	6.8
13-15	7.2

TOPO MAP

REVISED 1-15- 2016

SYNAGRO

Beautiful Run Farm, LLC
MA13
Fields 2 – 11



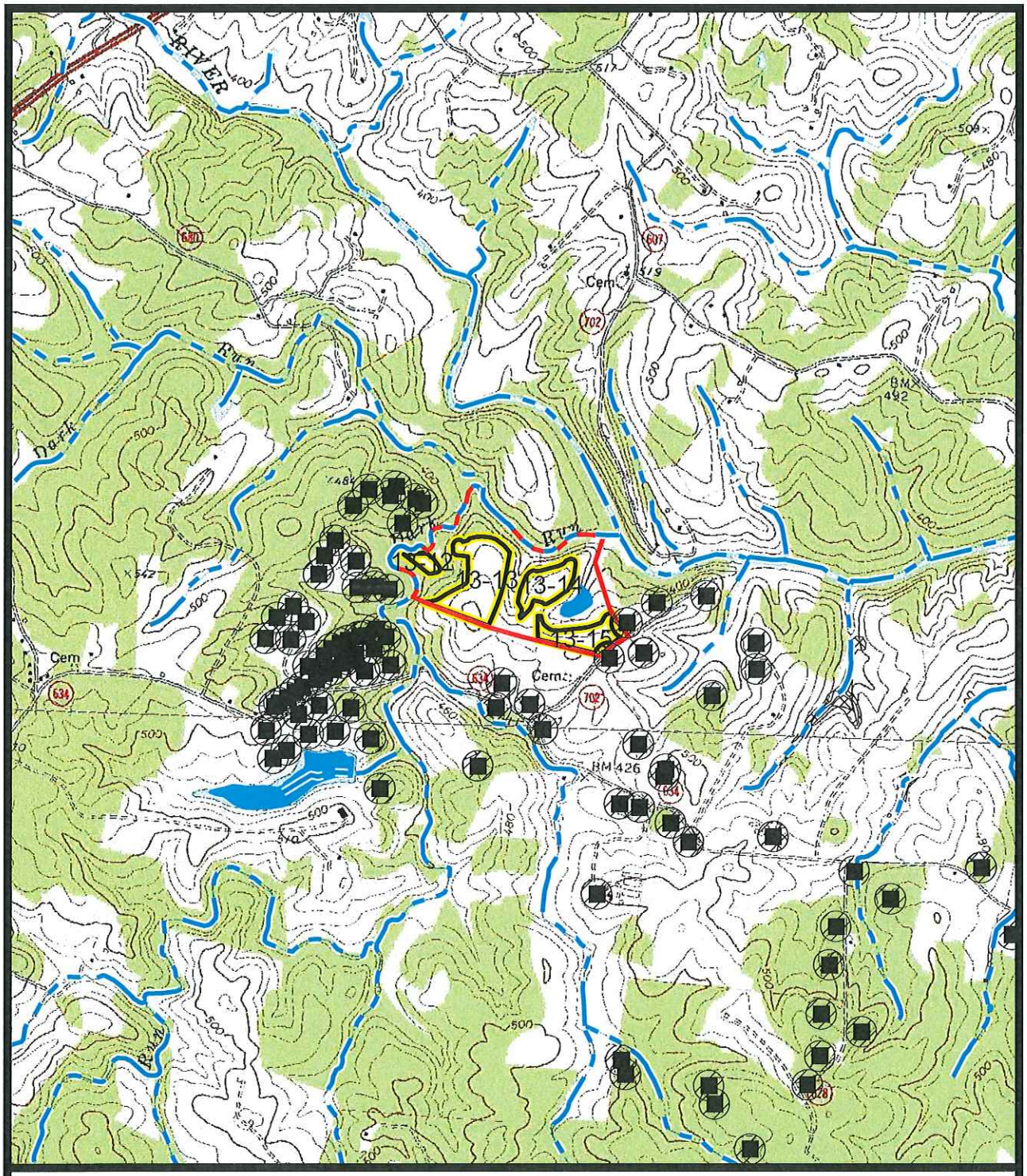
SCALE 1:24,000

TOPO MAP

N

SYNAGRO

Beautiful Run Farm
MA 13
Fields 12-15



1 inch = 2,000 feet

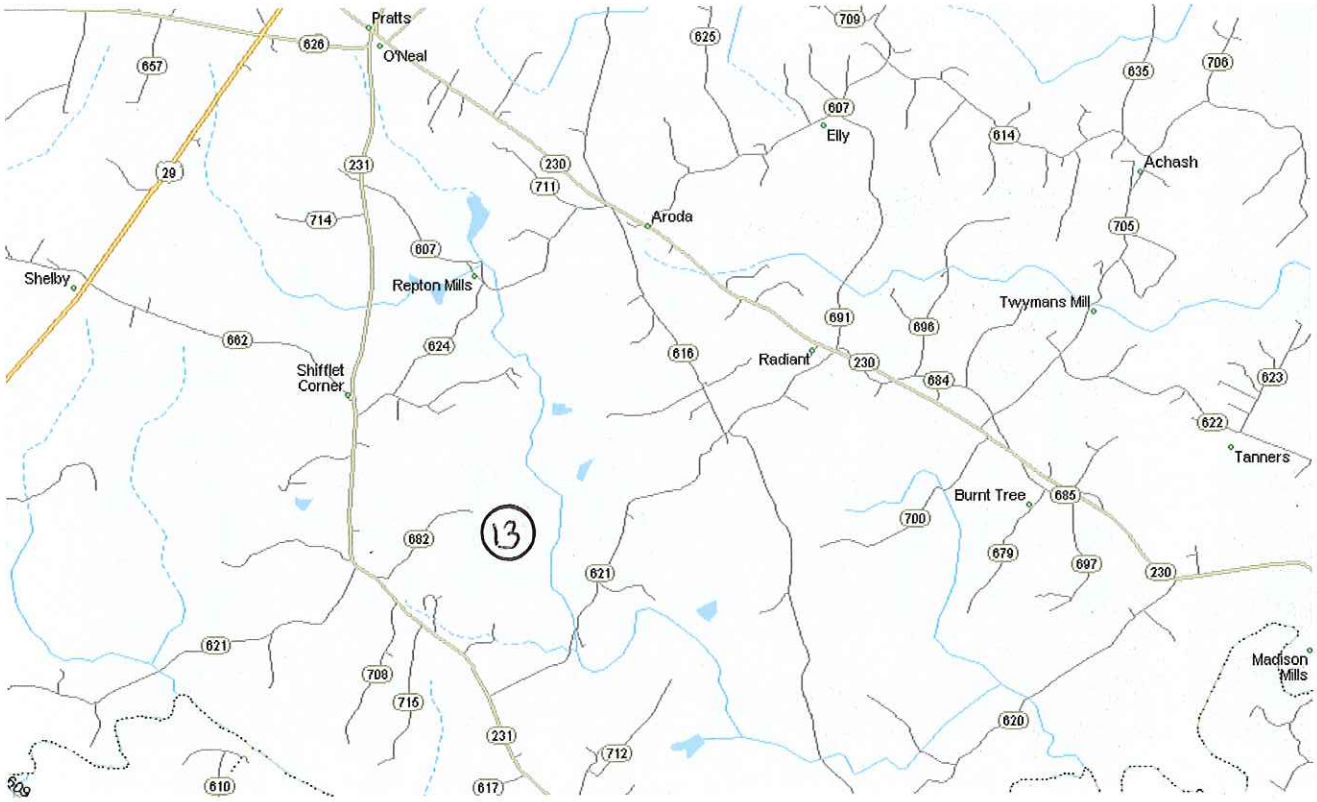
1:24,000

TOPO MAP

REVISED 1-15- 2016

SYNAGRO

Beautiful Run Farm LLC
MA13
Fields 2 – 11



LOCATION MAP

N